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PATENT COOPERATION

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	(PCT Article 36	and Rule 70)	10/04949	Ų FD
Applicant's or agent's file reference 43 368 K	FOR FURTHER ACT		ication of Transmittal of Internation Examination Report (Form PCT/IPEA/416	
International application No. PCT/EP99/05995	International filing date (16 August 1999	-	Priority date (day/month/year)	
International Patent Classification (IPC) or n C23C 22/53	ational classification and I	PC		
Applicant WALTER HII	LLEBRAND GMBH	& CO. GALVA	ANOTECHNIK	
Authority and is transmitted to the a 2. This REPORT consists of a total of This report is also accompanies.	pplicant according to Artic 6 sheets, in nied by ANNEXES, i.e., sheating for this report and/or sheets.	ele 36. cluding this cover states of the descrip heets containing references.	tion, claims and/or drawings which have ectifications made before this Authority	
These annexes consist of a t	otal of she	ets.	RECEIVED	
3. This report contains indications rela	ting to the following items	:	JUL 5 - 2002	
I Basis of the report			TC 1700	
" [t of opinion with regard to	novelty, inventive	step and industrial applicability	
IV Lack of unity of in	ivention			
V Reasoned statement citations and explain	nt under Article 35(2) with anations supporting such st	regard to novelty, atement	inventive step or industrial applicability;	
VI Certain documents	s cited			
VII Certain defects in	the international application	n		
VIII Certain observatio	ons on the international app	lication		
Date of submission of the demand	Г	ate of completion	of this report	
17 March 2000 (17.03	3.00)	21 No	ovember 2000 (21.11.2000)	
Name and mailing address of the IPEA/EP	A	uthorized officer		

Telephone No.

Facsimile No.

International application No.

. INTERNATIONAL PRELIMINARY EXAMINATION REPORT

PCT/EP99/05995

I. Basis of the	report		
1. This report under Article	has been drawn o	n the basis of (Replace in this report as "original	rement sheets which have been furnished to the receiving Office in response to an invitation inally filed" and are not annexed to the report since they do not contain amendments.):
	the international	application as origin	ally filed.
\boxtimes	the description,	pages1-	4, as originally filed,
		pages	, filed with the demand,
			, filed with the letter of
		pages	filed with the letter of
	the claims,	Nos. 1-	5, as originally filed,
			, as amended under Article 19,
			, filed with the demand,
		Nos	, filed with the letter of,
		Nos	, filed with the letter of
	the drawings,	sheets/fig	, as originally filed,
			, filed with the demand,
		-	, filed with the letter of,
		sheets/fig	, filed with the letter of
2. The amend	lments have result	ed in the cancellation	n of:
	the description,	pages	
	the claims,	Nos	
	the drawings,		
	,	<u> </u>	
3. This to go	report has been e beyond the discl	stablished as if (som osure as filed, as ind	e of) the amendments had not been made, since they have been considered icated in the Supplemental Box (Rule 70.2(c)).
4. Additional	observations, if n	ecessary:	

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

nternational application No. PCT/EP 99/05995

Reasoned statement under Article 35(2) with regard t novelty, inventive step or industrial applicability;
 citations and explanations supporting such statement

Statement			
Novelty (N)	Claims	4, 5	YES
	Claims	1-3	NO
Inventive step (IS)	Claims	····	YES
	Claims	1-5	NO NO
Industrial applicability (IA)	Claims	1-5	YES
	Claims		NO

2. Citations and explanations

The following documents are cited:

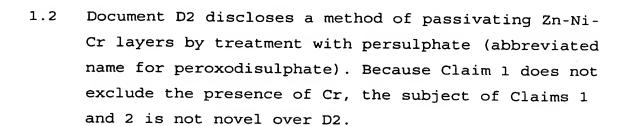
D1: EP-A-760 401

D2: CHEMICAL ABSTRACTS, Vol. 121, No. 6,

8 August 1994, Columbus, Ohio, US;

abstract No. 62348v.

- 1. The present application does not meet the requirements of PCT Article 33(2), since the subject of Claims 1 to 3 is not novel over the prior art as defined in the PCT Regulations (PCT Rules 64.1 to 64.3).
- 1.1 Document D1 describes a method of passivating Zn-Ni layers by treatment with a solution containing peroxide such as peroxodisulphate. The passivated surfaces are then coated with e.g. silicate layers (cf. Claim 1; Examples 7 and 16; page 2, lines 39-42; page 3, lines 51-58). The subject of Claims 1 to 3 is therefore not novel.



- 1.3 It should be noted that at least Claim 1 is not novel over any of the X documents in the search report, since these documents disclose the passivation of Zn-Ni layers by means of an oxidising agent. Where the abstracts do not mention Zn-Ni layers, reference should be made to the original applications.
- The present application does not meet the requirements of PCT Article 33(3), since the subject matter of Claims 4 and 5 does not involve an inventive step (PCT Rule 65.1 and 65.2).
- 2.1 The layers in Claims 4 and 5 are layers customarily used (cf. present application, page 3, paragraph 3) which can be applied after passivation. It is then obvious to a person skilled in the art to make use of these layers after passivation in accordance with D1 and so to arrive at a method as claimed in Claims 4 and 5. Furthermore the application does not show any effect of the combination.
- 3. The present invention is regarded as industrially applicable, since it can be used in the field of surface treatment.

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

VII. Certain defects in the international application

The following defects in the form or contents of the international application have been noted:

- 1. Contrary to PCT Rule 5.1(a)(ii), the description does not cite documents D1 and D2 or indicate the relevant prior art disclosed therein.
- 2. Claim 1 has been drafted in the two-part form, however, it is not correct to place the feature "with an oxidising agent" in the characterising part, as it was disclosed in combination with the features listed in the preamble (PCT Rule 6.3(b)).

-, " INTERNATIONAL PRELIMINARY EXAMINATION REPORT

ernational application No. PCT/EP 99/05995

VIII. Certain observations on the international application

The following observations on the clarity of the claims, description, and drawings or on the question whether the claims are fully supported by the description, are made:

1. It is apparent from the description, page 2, paragraph 6, that the following feature is essential to the definition of the invention:

"avoiding any use of chromium".

Since independent Claim 1 does not contain this feature, it does not meet the requirement of PCT Article 6 in conjunction with PCT Rule 6.3(b), according to which each independent claim must include all the technical features which are necessary for the definition of the invention.

- 2. "Peroxide sulphate" in Claim 2 (and on page 3) is a typing error. "Peroxodisulphate" is intended.
- 3. The subject of dependent Claim 3 cannot be appended to independent Claim 1 (according to Claim 3 the conversion layer is applied to the zinc-nickel layer and not to the **passivated** zinc-nickel layer in Claim 1). This inconsistency between the claims leads to doubt as to the scope of the claims, which therefore do not exhibit the clarity specified in PCT Article 6.
- 4. The expression "conversion layer" used in Claims 3 and 4 is not clear, and leaves the reader uncertain as to the meaning of the technical feature concerned. The layers mentioned in the subclaims and description are not conversion layers. Consequently the definition of the subject matter of Claims 3

". " INTERNATIONAL PRELIMINARY EXAMINATION REPORT

ernational application No.
PCT/EP 99/05995

VIII. Certain observations on the international application

and 4 is not clear (PCT Article 6).

- 5. Claim 5 is not supported by the description as prescribed in PCT Article 6, as its scope goes beyond the scope justified by the description. The reasons are as follows: "dry lubricant layer" was omitted in the description.
- 6. Claim 5 does not state what the layer is applied to.
 Consequently the definition of the subject matter of
 Claim 5 is not clear.

Form PCT/IPEA/409 (Box VIII) (January 1994)